



Fourth Grade Independent Learning Project Winter 2024

Student Name: _____

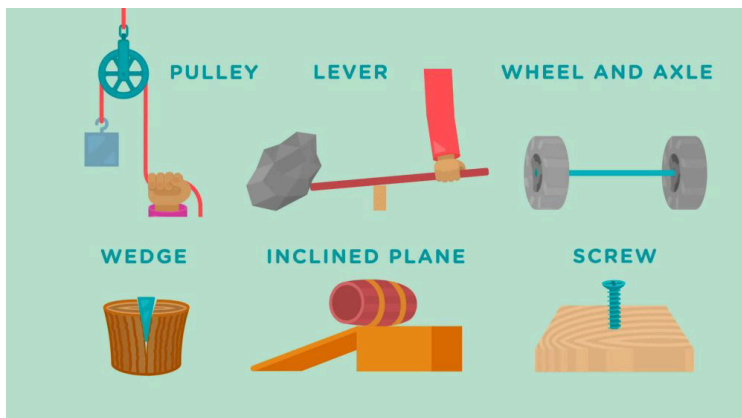
The Geography of War

During your study of the American Revolution, you learned some of the major events that led to the defeat of the British. The American and British forces attempted to use the physical geography of each battle site to help them win the war. The Battles of Lexington and Concord in April 1775 were significant battles that took place at the beginning of the war. The Battle of Saratoga marked the turning point in the Revolutionary War. Yorktown was the last major battle of the war. During these battles, each force used the physical features of the area where the battle occurred to help them win.

Your Social Studies & ELA Task: Pretend you are a newspaper reporter from the battlefield. Tell how the colonists used their knowledge of the land around **one** of the battle sites listed below to their benefit during the battle against the British on the “Reporting From the Battlefield” writing paper.

- The Battles of Lexington and Concord – Include details about the stone fences, soldiers hiding in the woods, and the highest ground in the area.
- The Battle of Saratoga – Include details about the thick mud, deep ravines, terrain, and weather.
- The Battle of Yorktown – Include details about surrounding the British and trapping them.

Geography and knowledge of simple machines helped soldiers on the battlefield. Cannons had wheels and axles that made them easy to pull. Pulley systems were used to lift heavy metal. Levers were important when objects were launched over high walls and forts. These are just a few examples of how simple machines helped soldiers on the battlefield.



Simple machines make work easier. They have few or no moving parts and they work by changing the direction of a force or the amount of force needed to do something.

The six simple machines are the wedge, screw, lever, pulley, inclined plane, and the wheel and axle. They all make work easier.

Your Science Task: Create a foldable flipbook of 3 simple machines. Write a simple machine on each flap. Be sure to include examples of each machine and how that type of machine can make our lives easier.

Scan the QR code or visit https://bit.ly/Flipbook_tutorial for a tutorial.



Reporting From the Battlefield

Pretend you are a newspaper reporter from the battlefield. Tell how the colonists used their knowledge of the land around **one** of the battle sites listed below to their benefit during the battle against the British on the "Reporting From the Battlefield" sheet.

- The Battles of Lexington and Concord – Include details about the stone fences, soldiers hiding in the woods, and the highest ground in the area.
- The Battle of Saratoga – Include details about the thick mud, deep ravines, terrain, and weather.
- The Battle of Yorktown – Include details about surrounding the British and trapping them.

Remember: You are a newspaper reporter reporting from **one** of the battlefields. Write in complete sentences and apply the rules of capitalization and punctuation.

Battles of Lexington and Concord

-Known for the 'shot heard 'round the world' and marked the start of the American War of Independence.

Stone Fence

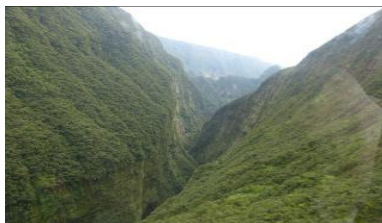


Farmers stacked stones to create walls to keep animals in and to separate one farm from another. During the Battle of Lexington and Concord, minute men fired at the British from behind trees, stone walls, houses and sheds. Before long, British troops were abandoning weapons, clothing and equipment in order to retreat faster.

Battle of Saratoga

Two battles fought 18 days apart became the turning point of the American Revolution when the Continental Army defeated the superior British army and persuaded the French to help them defeat the British.

Deep Ravine



A ravine is a deep narrow steep-sided valley. The Continental Army used the deep ravines to defend themselves against any frontal attacks by the British Army.

Fourth Grade Independent Learning Project Winter 2024

Your MathTask: During the Boston Tea Party, approximately 60 colonies protested to tax tea by dressing as Native Americans and dumping tea in the Boston Harbor. Your job is to find out the amount of tea that was in six of the crates that were dumped. Please show your work.

Crate 1	Crate 2
<p>The following amounts of tea were found in crate 1. How many pounds of tea was in this crate? _____</p> <div style="text-align: center; margin-top: 10px;"> </div>	<p>The following amounts of tea were found in crate 2. How many pounds of tea was in this crate? _____</p> <div style="text-align: center; margin-top: 10px;"> </div>
Crate 3	Crate 4
<p>$\frac{7}{4}$ of the tea found in crate 3 was black tea. What is $\frac{7}{4}$ as a mixed number? Circle where $\frac{7}{4}$ is on the number line and then write $\frac{7}{4}$ as a fraction greater than one.</p> <div style="text-align: center; margin-top: 10px;"> </div>	<p>$\frac{3}{4}$ of the tea bags found in crate 4 were forms of black tea. The other forms of tea in the crate were green tea. What fraction of the tea was green tea?</p> <div style="text-align: center; margin-top: 10px;"> </div>

Your Math Task: Draw angles that relate to the descriptions listed.

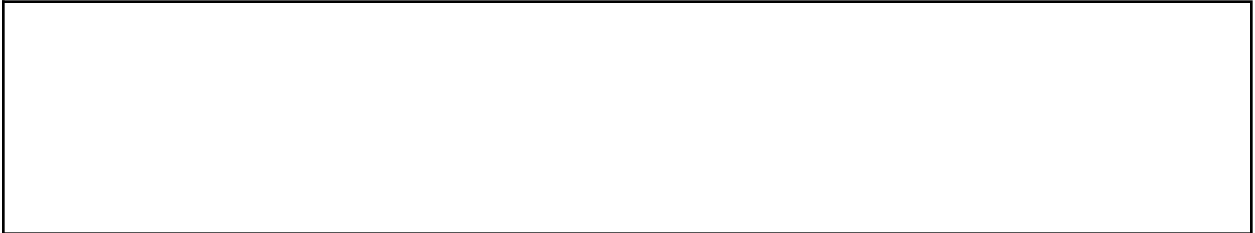
- The angle formed between the British and American forces at the Battles of Lexington and Concord was obtuse. Draw a possible representation of this angle.

- During the signing of the Treaty of Paris in 1783, representatives from the United States, Britain, and France gathered. The angle formed by the British and American representatives was obtuse degrees, and the angle formed by the American and French representatives was acute degrees. Draw a possible representation of each angle.

Fourth Grade Independent Learning Project Winter 2024

3. George Washington crossed the Delaware River on Christmas night in 1776, surprising the Hessian forces. If the angle formed by the direction of Washington's crossing and the original position of the Hessian forces was greater than 90 degrees, what type of angle was formed? _____

Draw a Possible angle that could be formed.



4. During the Boston Tea Party, participants dumped tea into the harbor at an acute angle from the horizontal. Draw a Possible angle that could be formed.



Fourth Grade Independent Learning Project Winter 2024

Optional Open Middle Math Challenge with Family

Can you and your family members find more than one solution to solve this problem?

Directions: Using the digits 1 to 9 at most one time each, place a digit in each box to create a true statement.

$$\frac{\square}{\square} < \frac{\square}{\square} < \frac{\square}{\square}$$

Hint

How does the numerator change when the value increases/decreases? How does the denominator change when the value increases/decreases?